SPECIAL CATALOGUE OF

CAST IRON

Manhole Frames & Covers
Drain Grates · Inlets · Etc.

ROUND · SQUARE · RECTANGULAR · OVAL

BIW

MANUFACTURED BY

BANNER IRON WORKS

4560 SHAW AVE.
ST. LOUIS

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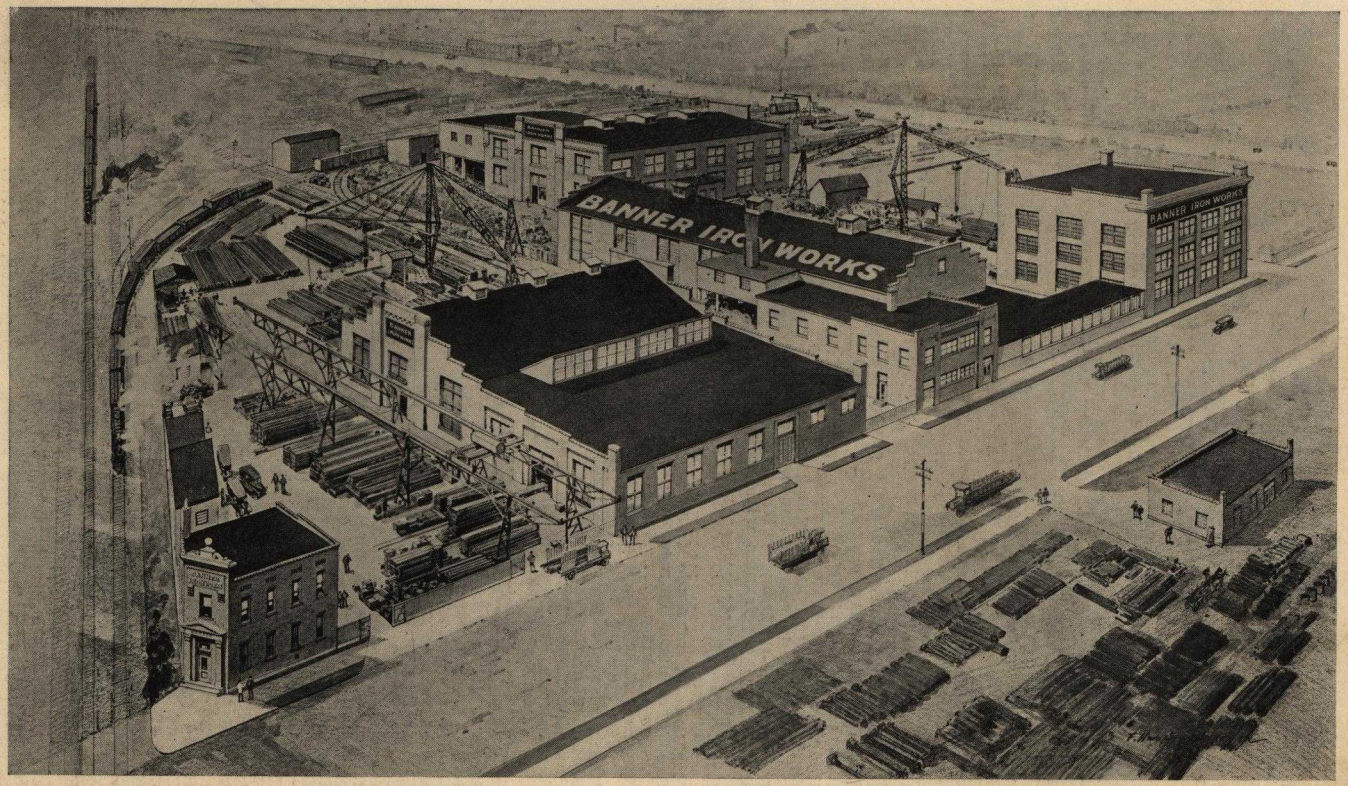

BANNER IRON WORKS, 4560 SHAW AVENUE, SAINT LOUIS

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W. T. Koken
President

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Vice-President

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CATALOGUE "E"

FOREWORD

In this revised catalogue of Cast Iron Grates, Inlets, Covers and Frames for Manholes, etc., a number of new patterns that were not shown in the previous issue have been added. All cuts have been made with a view of showing the necessary details only. The descriptions of the cuts give the required dimensions, weights and list prices of each article.

The list prices in this catalogue have been changed to conform to altered market conditions of material and labor, and cancel all prices given in previous issues.

We carry in stock a sufficient number of castings of each pattern to meet ordinary demands. Our facilities enable us to make prompt deliveries of quantity orders.

We are prepared to furnish any special castings not shown. Let us quote you on your requirements.

All prices are f. o. b. our plant, subject to discount.

Quantity orders will be delivered within the city limits, or f. o. b. cars St. Louis, without extra charge.

For small quantities, an extra charge will be made for delivery.

Crating or boxing, if necessary, will be charged at cost.

Terms: Net cash; payable in St. Louis Exchange.

List prices subject to discount and to change without notice.

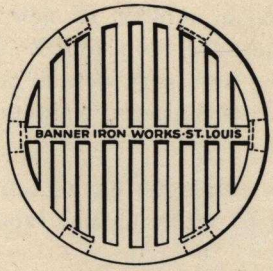
Address all communications to

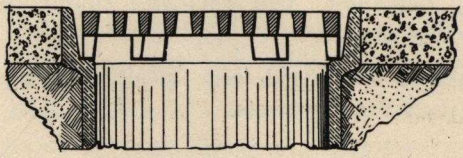
BANNER IRON WORKS
4560 Shaw Avenue
SAINT LOUIS

ROUND CAST IRON GRATES

TO FIT IN BELL ENDS OF STANDARD CLAY SEWER PIPE

No. 4710



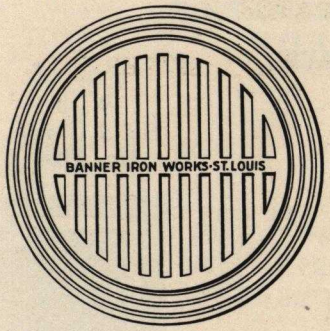


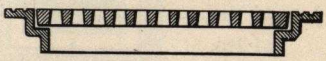
Sectional view showing bell end of sewer pipe in concrete floor with grate in place

Grates have lugs on bottom and are made to set one-eighth inch lower than top of bell to allow for any uneven surface in bell.

Size of Pipe, inches	4	6	7	8	9	10	12	14	15	16	18	18	20	22	24
Diameter of Bell, inches	$5\frac{5}{8}$	8	$9\frac{1}{8}$	$10\frac{1}{4}$	$11\frac{1}{4}$	$12\frac{3}{8}$	$14\frac{3}{4}$	$17\frac{1}{8}$	$18\frac{1}{4}$	$19\frac{3}{8}$	$21\frac{1}{2}$	$22\frac{1}{4}$	24	$26\frac{1}{4}$	$28\frac{3}{4}$
Diameter of Grate, inches	5	$7\frac{1}{2}$	$8\frac{5}{8}$	$9\frac{5}{8}$	$10\frac{5}{8}$	$11\frac{5}{8}$	14	$16\frac{1}{4}$	$17\frac{1}{2}$	$18\frac{3}{8}$	$20\frac{1}{2}$	$21\frac{3}{8}$	$23\frac{1}{4}$	$25\frac{1}{2}$	28
Depth of Bell, inches	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	3	3	3	3	3	$3\frac{1}{2}$	$3\frac{1}{2}$	4
Depth of Grate, inches	$1\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{5}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{7}{8}$	$2\frac{7}{8}$	$2\frac{7}{8}$	$2\frac{7}{8}$	$2\frac{7}{8}$	$3\frac{3}{8}$	$3\frac{3}{8}$	$3\frac{7}{8}$
Weight each, pounds	2	5	7	9	11	16	22	33	42	55	68	68	98	106	130
Price, each	$0.35	0.50	0.70	0.80	1.00	1.25	1.50	2.10	2.75	3.85	4.35	4.35	6.00	6.35	8.50

NOTE: Grates for 18" pipe are made in two sizes to meet variation in diameter of bell ends made by different manufacturers.



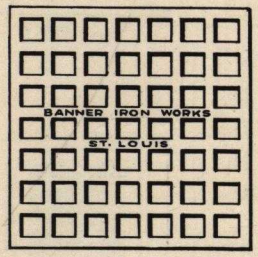


ROUND CAST IRON GRATES AND FRAMES

No. 4570

By using an iron frame for grate to set in, as shown here, the breaking or cracking of granitoid and sewer pipe will be avoided.

Diameter of Grate, inches	10	12	15	16	18	20	22	24	26	32½
Outside Diameter of Frame, inches	14	16	19	20	22	24	26	28	30	36½
Depth of Frame, inches	2¾	2¾	2¾	3	3	4	4	4	4	4
Weight of Frame, pounds	21	26	33	37	45	68	72	80	95	115
Weight of Grate, pounds	12	15	30	37	53	55	75	100	110	180
Price of Grate and Frame	$3.20	4.50	6.20	6.50	7.25	9.25	10.25	13.00	14.00	17.00
Price of Grate only	.90	1.20	1.90	2.20	3.25	4.00	4.60	6.60	7.00	10.00



SQUARE CAST IRON GRATES

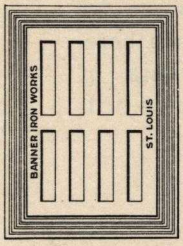
No. 4571

Size of Grate	8″x8″	10″x10″	12″x12″	20″x20″
Weight, each	8 lb.	15 lb.	20 lb.	55 lb.
Price, each	$1.00	$1.25	$2.10	$4.00

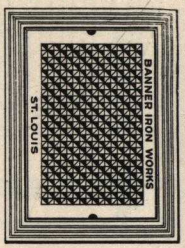
No. 4571 are all one inch in thickness

RECTANGULAR
CAST IRON FRAMES

With Grate
No. 4720



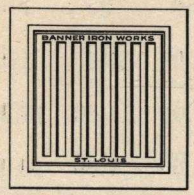
With Solid Cover
No. 4721



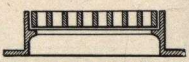
Size of Grate or Cover .....14″x20″
Size of Frame, outside.....18″x24″
Height of Frame.....$2\frac{3}{4}$″

Weight of Frame.....62 lbs.
Weight of Grate No. 4720.....42 lbs.
Weight of Cover No. 4721.....41 lbs.

Price of No. 4720, complete.....$ 9.50
Price of No. 4721, complete..... 10.00



No. 4850



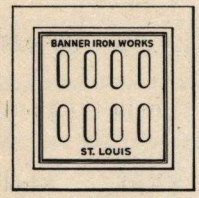
No. 4851

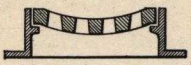
SQUARE CAST IRON FRAMES
With Grates and Solid Covers

Size of Grate or Cover.....13″x13″
Size of Frame, outside.....18″x18″
Height of Frame.....5″

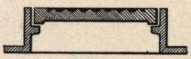
Weight of Frame.....54 lbs.
Weight of Grate No. 4850.....27 lbs.
Weight of Grate No. 4851.....27 lbs.
Weight of Grate No. 4852.....54 lbs.
Weight of Cover No. 4853.....33 lbs.

Price of No. 4850, complete.....$6.80
Price of No. 4851, complete..... 6.80
Price of No. 4852, complete..... 7.75
Price of No. 4853, complete..... 7.00





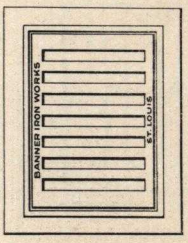
No. 4852



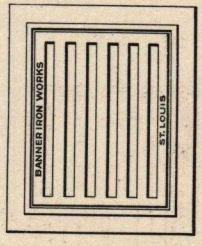
No. 4853

RECTANGULAR CAST IRON FRAMES WITH CONCAVE GRATES

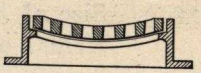
No. 4854



No. 4855



Size of Grate.....14″x18″
Size of Frame, outside.....19″x23″
Height of Frame.....5″

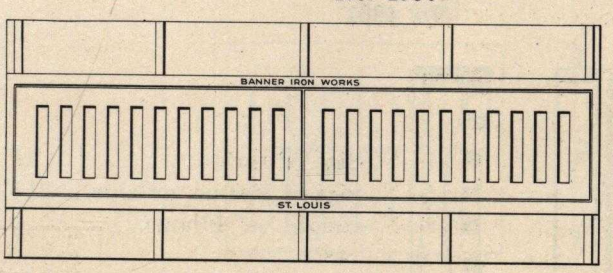


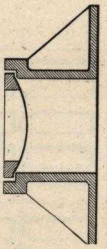
Weight of Frame.....76 lbs.
Weight of Grate No. 4854.....40 lbs.
Weight of Grate No. 4855.....45 lbs.

Price of Frame and Grate No. 4854, complete.....$9.50
Price of Frame and Grate No. 4855, complete..... 9.75

RECTANGULAR CAST IRON GRATE AND FRAME FOR RAILWAY TRACK DRAINS GRATE IN TWO SECTIONS

No. 4950





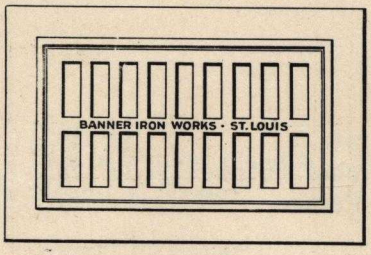
Size of Double Grates, overall.....9″x48″
Size of Frame, outside.....20″x50″
Height of Frame.....$7\frac{7}{8}$″

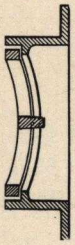
Weight of Double Grates.....100 lbs.
Weight of Frame.....350 lbs.

Price, complete.....$29.00

RECTANGULAR CAST IRON FRAME WITH CONCAVE GRATE

No. 4860

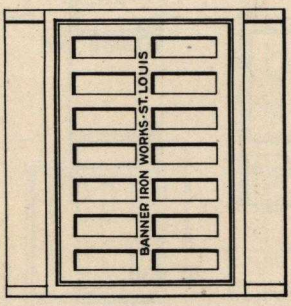




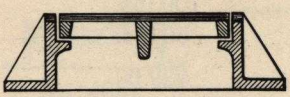
Size of Grate	14″x26″
Size of Frame, outside	22½″x34½″
Height of Frame	6″
Weight of Frame	135 lbs.
Weight of Grate	85 lbs.
Price, complete	$15.00

RECTANGULAR CAST IRON FRAME WITH CONCAVE GRATE

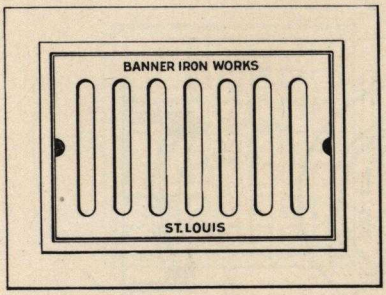
No. 4861

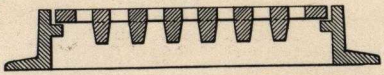


Size of Grate	14″x20″
Size of Frame, outside	21½″x22″
Height of Frame	6″
Weight of Frame	130 lbs.
Weight of Grate	77 lbs.
Price, complete	$13.00



CITY OF EAST ST. LOUIS, ILL., STANDARD CAST IRON GUTTER INLET GRATE AND FRAME



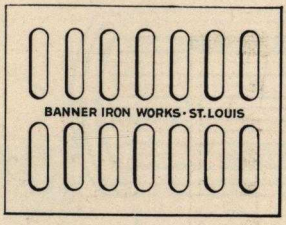


No. 4862

Size of Grate	15½"x24"
Size of Frame, outside	23½"x32"
Height of Frame	5"
Weight of Frame	215 lbs.
Weight of Grate	105 lbs.
Price, complete	$19.00

CITY OF EAST ST. LOUIS, ILL., STANDARD CAST IRON INLET GRATE

No. 4863

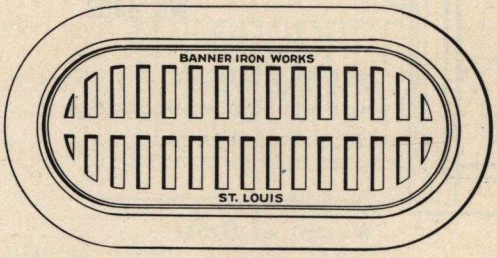


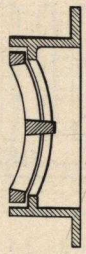
Size	18"x24"
Thickness of metal	1¼"
Depth of rib, overall	3"
Weight	125 lbs.
Price	$7.00

CAST IRON GRATE AND FRAME

FOR GUTTER INLETS CONCAVE OVAL PATTERN

No. 4870



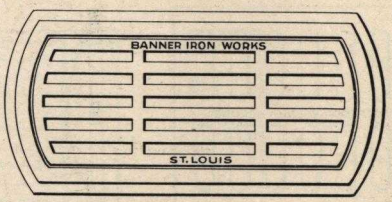


Size of Grate	15″x39″
Size of Frame, outside	47″x23″
Height of Frame	7″
Weight of Grate	118 lbs.
Weight of Frame	185 lbs.
Price, complete	$20.00

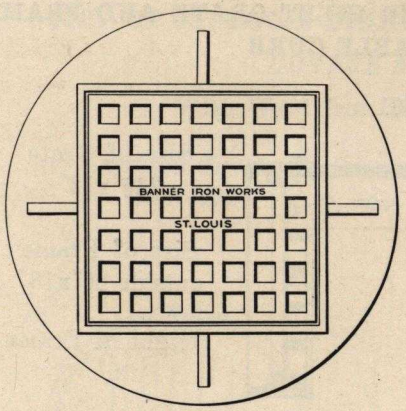
CAST IRON GRATE AND FRAME

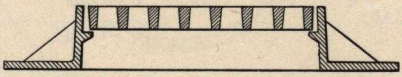
FOR GUTTER INLETS CONCAVE SEGMENT PATTERN

No. 4871



Size of Grate	12″x31″
Size of Frame, outside	17″x36½″
Height of Frame	2¾″
Weight of Grate	50 lbs.
Weight of Frame	110 lbs.
Price, complete	$12.50





CITY OF ST. LOUIS STANDARD CAST IRON SEWER INLET GRATE AND FRAME WITHOUT CURB

No. 4820

Size of Grate
22″x22″

Diameter of Frame, outside
38″

Height of Frame
6″

Weight of Grate
140 lbs.

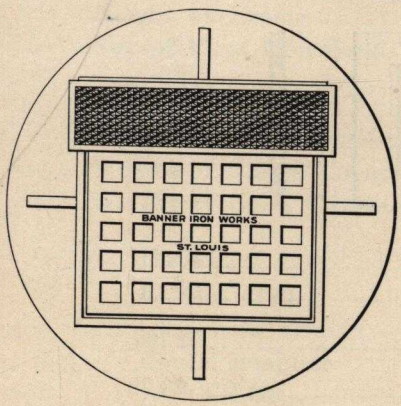
Weight of Frame,
213 lbs.

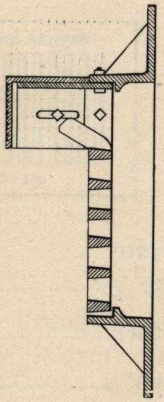
Price, complete
$22.00

CITY OF ST. LOUIS STANDARD CAST IRON SEWER INLET GRATE AND FRAME WITH ADJUSTABLE CURB

No. 4830

Size of Grate.....22″x16″
Diameter of Frame, outside.....38″
Height of Frame.....6″
Size of Curb.....6″ wide, 8″ high above Frame, 25¾″ long





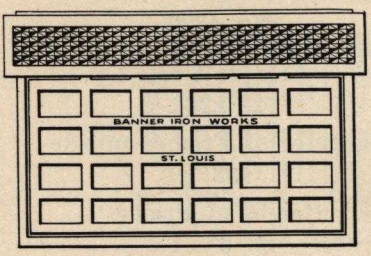
Weight of Grate
131 lbs.

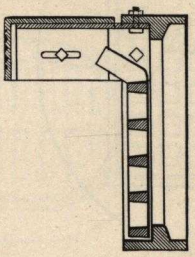
Weight of Frame
and Curb
348 lbs.

Price, complete
$36.00

RECTANGULAR CAST IRON SEWER INLET GRATE AND FRAME WITH ADJUSTABLE CURB

No. 4831





Size of Grate
24½"x12"

Size of Frame
outside 26"x18"

Height of Frame
5"

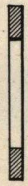
Size of Curb
5" wide
8" high above Frame
28" long

Weight of Grate..... 58 lbs.
Weight of Frame and Curb.....191 lbs.

Price, complete.....$22.00

RECTANGULAR CAST IRON GRATE

No. 4572



Size of Grate.....14"x21"
Thickness .....1"

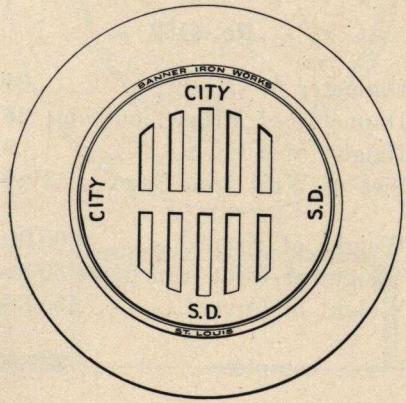
Weight, each.....52 lbs.

Price, each.....$3.25

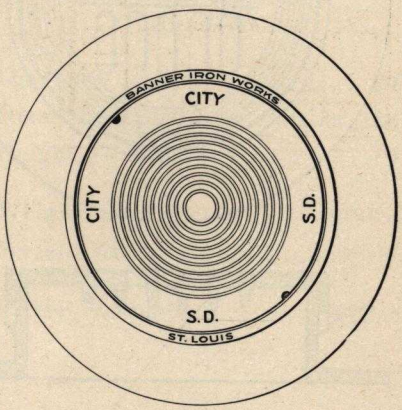
CITY OF ST. LOUIS STANDARD CAST IRON MANHOLE COVERS AND FRAMES

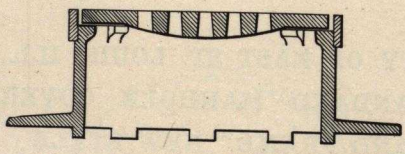
With Wrot Iron Band shrunk on Frame

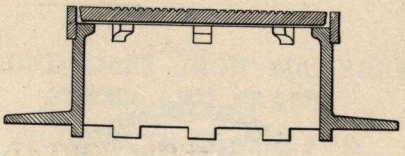
Grated Cover
No. 4180



Solid Cover
No. 4181





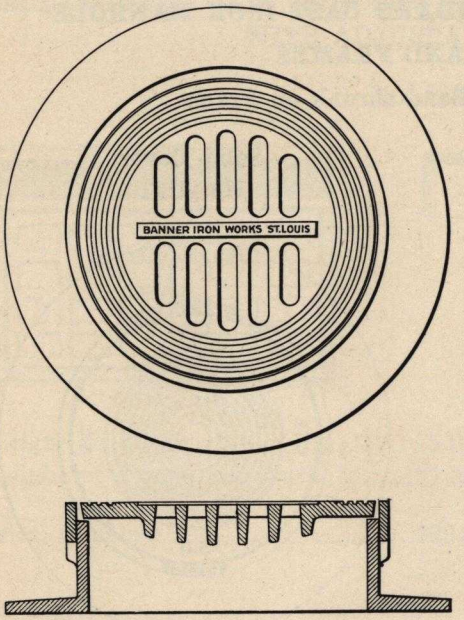


Diameter of Cover	24″
Diameter of Frame, outside	$37\frac{3}{4}$″
Height of Frame	$11\frac{1}{2}$″
Size of Wrot Iron Band	3″x1″
Weight of Frame	346 lbs.
Weight of Wrot Iron Band	65 lbs.
Weight of Grated Cover	144 lbs.
Weight of Solid Cover	167 lbs.

PRICES

No. 4180
Frame with Grated Cover, complete
$31.00

No. 4181
Frame with Solid Cover, complete
$32.00



CITY OF EAST ST. LOUIS, ILL. STANDARD MANHOLE COVER AND FRAME

With Wrot Iron Band Shrunk on Frame

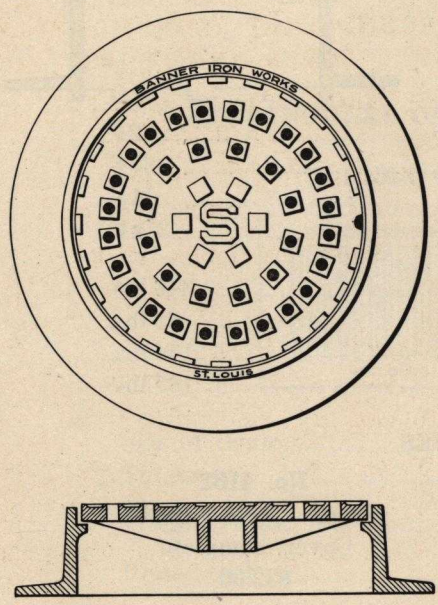
GRATED COVER

No. 4182

Diameter of Cover.....24″
Diameter of Frame, outside....36″
Height of Frame.....9″
Size of Wrot Iron Band.....3″x$\frac{3}{4}$″

Weight of Frame.....300 lbs.
Weight of Wrot Iron Band..50 lbs.
Weight of Cover.....155 lbs.

Price, complete.....$29.00



CITY OF EAST ST. LOUIS, ILL., STANDARD MANHOLE COVER AND FRAME. NEW STYLE

(Without Wrot Iron Band)

VENTILATED COVER

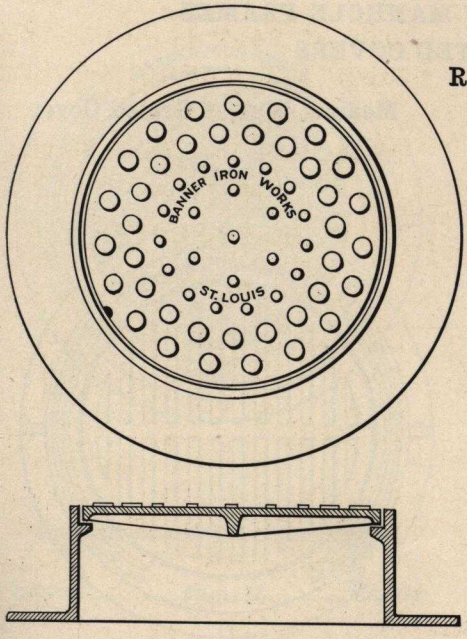
No. 4183

Solid Covers can also be furnished

Diameter of Cover.....24″
Diameter of Frame, outside.....34″
Height of Frame.....7″

Weight of Frame.....210 lbs.
Weight of Cover.....140 lbs.

Price, complete.....$22.00

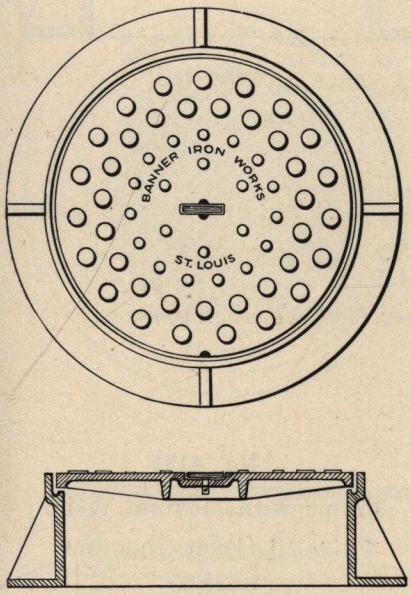


ROUND SUBURBAN STANDARD CAST IRON MANHOLE COVER AND FRAME

SOLID COVER WITH RAISED DISCS

No. 4730

Diameter of Cover	24″
Diameter of Frame, outside	36″
Height of Frame	9″
Weight of Frame	245 lbs.
Weight of Cover	90 lbs.
Price, complete	$20.00



ROUND CAST IRON MANHOLE COVER AND FRAME

GROOVE IN FRAME FOR PACKING

SOLID COVER WITH RAISED DISCS

Flush Lift Handle on Cover

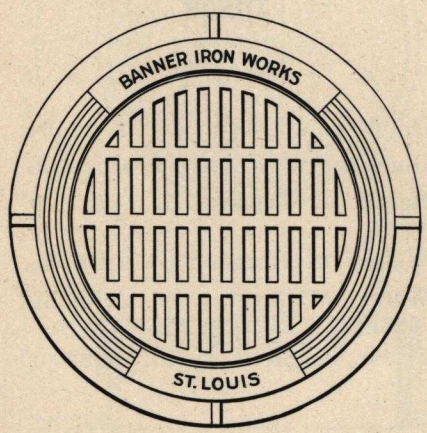
No. 4731

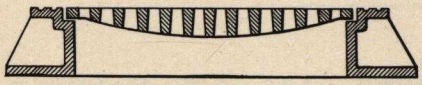
Diameter of Cover	24″
Diameter of Frame, outside	31½″
Height of Frame	9″
Weight of Frame	175 lbs.
Weight of Cover	105 lbs.
Price, complete	$25.50

ROUND CAST IRON MANHOLE FRAMES WITH GRATED COVERS

Heavy Grated Cover

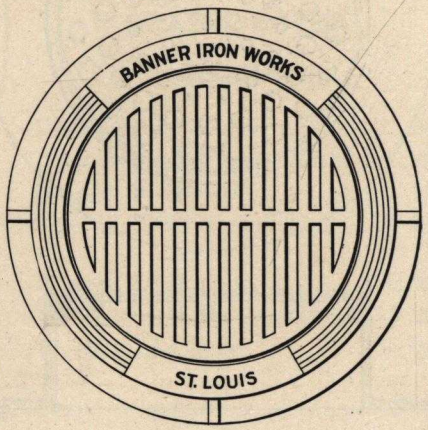
No. 4170

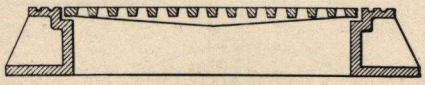




Medium Weight Grated Cover

No. 4171





Diameter of Cover	26″
Diameter of Frame, outside	36½″
Height of Frame	6″
Weight of Frame	250 lbs.
Weight of Heavy Covers No. 4170	165 lbs.
Weight of Medium Weight Cover No. 4171	110 lbs.

PRICES

No. 4170

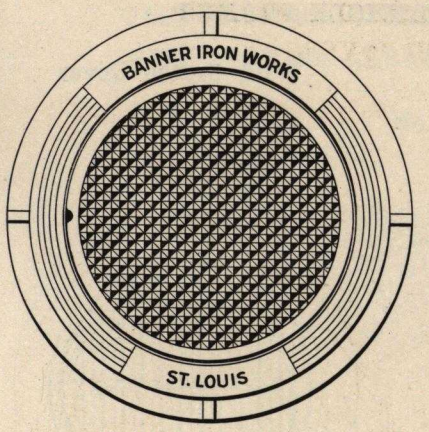
Frame with Heavy Grated Cover, complete

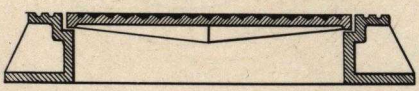
$31.50

No. 4171

Frame with Medium Weight Grated Cover, complete

$29.50





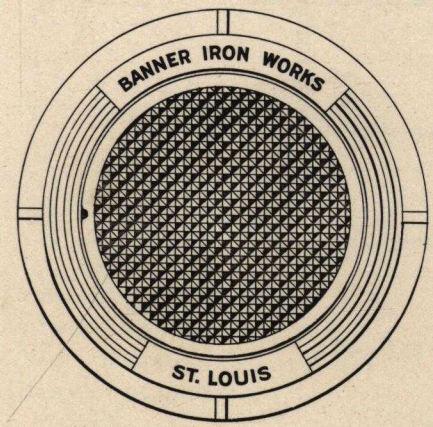
ROUND CAST IRON MANHOLE FRAME WITH SOLID COVER

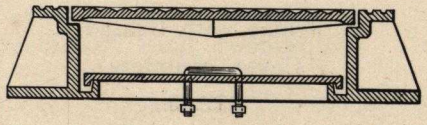
No. 4740

Diameter of Cover.....26″
Diameter of Frame, outside....36½″
Height of Frame.....6″

Weight of Frame.....250 lbs.
Weight of Cover.....120 lbs.

Price, complete.....$30.00





ROUND CAST IRON MANHOLE FRAME WITH SOLID OUTER AND INNER COVERS

No. 4800

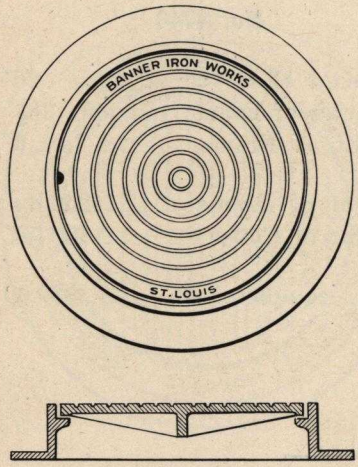
Diameter of Outer Cover.....26″
Diameter of Frame, outside..36½″
Clear diameter of opening.....21½″
Height of Frame.....8″

Weight of Frame.....350 lbs.
Weight of Outer Cover.....120 lbs.
Weight of Inner Cover..... 45 lbs.

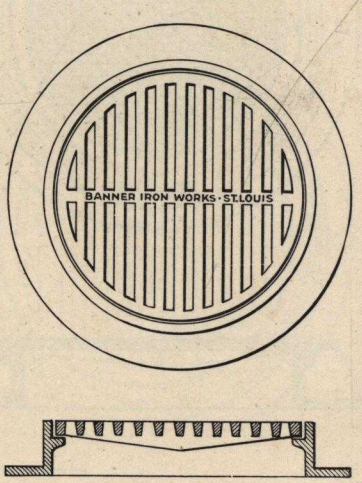
Price, complete.....~~$32.00~~
$37.00

ROUND CAST IRON MANHOLE FRAMES

With Solid Cover
No. 4790



With Grated Cover
No. 4791



Diameter of Cover	21½″
Diameter of Frame, outside	30″
Height of Frame	5″
Weight of Frame	103 lbs.
Weight of Solid Cover	97 lbs.
Weight of Grated Cover	75 lbs.

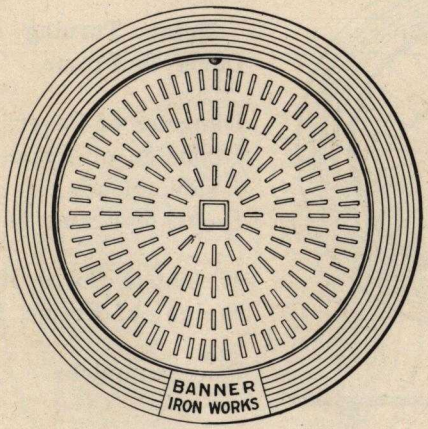
PRICES

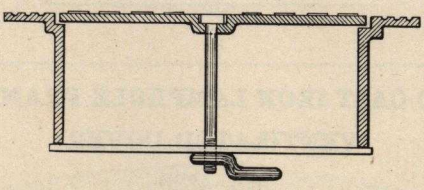
No. 4790
Frame with Solid Cover, complete
$13.50

No. 4791
Frame with Grated Cover, complete
$12.75

CAST IRON COAL RINGS AND SOLID COVERS WITH LOCKING ARRANGEMENT UNDERNEATH

No. 4140



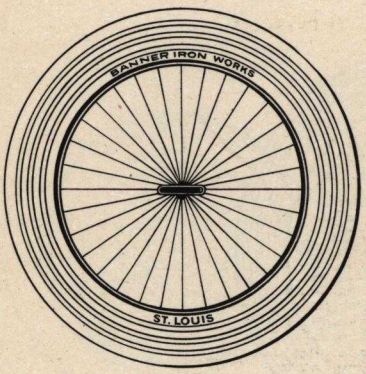


Note the Various Depths of Rings

Diameter of Cover, inches	19½	19½	25½	25½	32	36
Diameter of Ring, outside, inches	25½	25½	31½	31½	37½	42½
Diameter of opening, inches	18	18	24	24	30	35
Depth of Ring, inches	5½	8	4	8	8	5½
Weight of Cover, pounds	57	57	100	100	172	238
Weight of Ring, pounds	80	100	82	118	185	300
Price, complete	$11.25	$12.00	$14.50	$15.75	$24.00	$32.00

CAST IRON CISTERN RINGS AND SOLID COVERS WITH FLUSH LIFT HANDLE

No. 4150



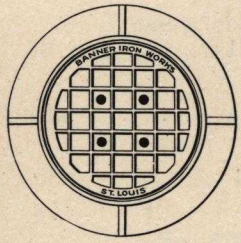
Note: Turning of Handle secures Cover to Frame.

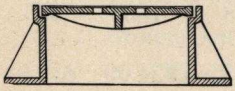
Diameter of Cover, inches	18	21
Diameter of Frame, outside, inches	27	30
Depth of Frame, inches	3	3
Weight of Cover, lbs.	20	35
Weight of Frame, lbs.	40	46
Price, complete	$8.75	$11.25

ROUND CAST IRON LAMPHOLE FRAME AND VENTILATED COVER

No. 4890

Solid Cover Can Also be Furnished



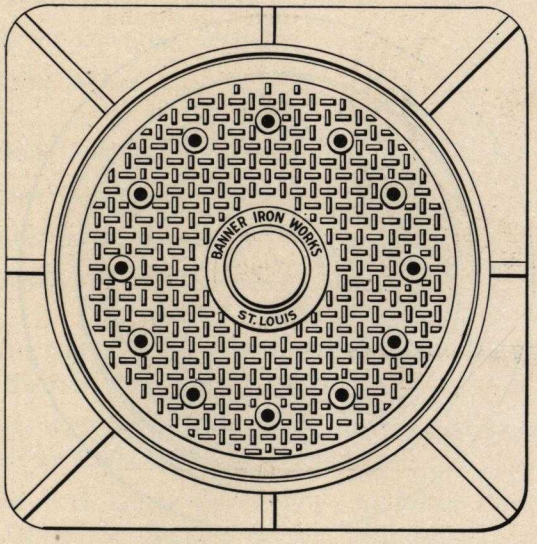


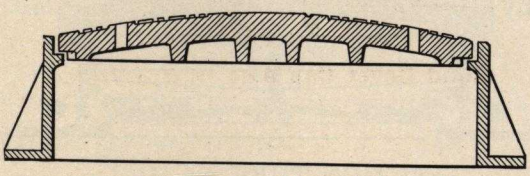
Diameter of Cover	16″
Diameter of Frame, outside	23″
Height of Frame	8″
Weight of Cover	40 lbs.
Weight of Frame	94 lbs.
Price, complete	$9.75

SQUARE CAST IRON MANHOLE FRAME AND ROUND VENTILATED COVER

No. 4760

Solid Cover can also be furnished





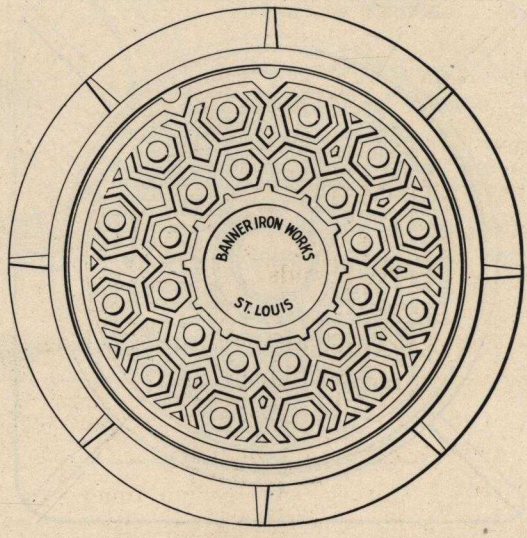
Diameter of Cover	34¼"
Size of Frame, outside	42½"x42½"
Height of Frame	10"
Weight of Cover	400 lbs.
Weight of Frame	540 lbs.
Price, complete	$52.50

ROUND CAST IRON MANHOLE COVERS AND FRAMES

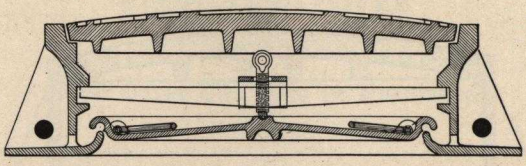
No. 4761 { **FRAMES WITH OUTER AND INNER COVERS**
INNER COVERS HAVE LOCKING DEVICE

No. 4762 FRAMES WITH OUTER COVERS ONLY

Outer covers are usually furnished solid, but can be furnished with ventilating holes when desired

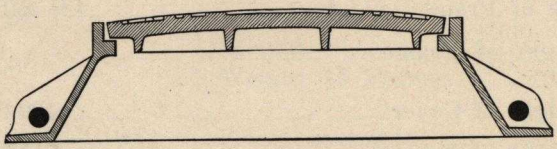


Plan showing outer cover and frame of No. 4761 and 4762



SECTION THRU No. 4761

A $\frac{3}{4}''$ diameter rubber gasket can be placed between the inner cover and the frame



SECTION THRU No. 4762

See Page 23 for dimensions, weights and prices of above.

DIMENSIONS, WEIGHTS AND PRICE LIST

No. 4761

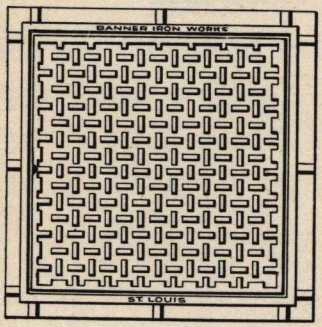
Diameter of Outer Cover, inches	33½	36½
Diameter of Frame, outside, inches	43½	46½
Clear Diameter of Opening, inches	27	30
Height of Frame, inches	11	11
Weight of Frame, pounds	565	585
Weight of Outer Cover, pounds	390	455
Weight of Inner Cover, pounds	123	163
Weight of Locking Device, pounds	23	25
Price of Frame, Outer and Inner Covers and Locking Device; no Rubber Gasket included	$85.75	$90.25
Price of Frame with Outer and Inner Covers; no Locking Device or Rubber Gasket included	72.00	76.25
Price of Frame with Outer Cover only; no Inner Cover, Locking Device or Rubber Gasket included	58.00	61.00

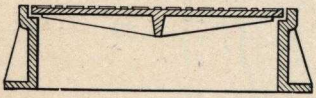
DIMENSIONS, WEIGHTS AND PRICE LIST

No. 4762

Diameter of Cover, inches	25¾	28¾	31¾
Diameter of Frame, outside, inches	43	46	49
Diameter of Clear Opening, inches	24	27	30
Height of Frame, inches	10	10	10
Weight of Frame, pounds	360	365	411
Weight of Cover, pounds	190	285	339
Price, complete	$40.00	$43.50	$47.00

SQUARE CAST IRON MANHOLE FRAME AND SOLID COVER

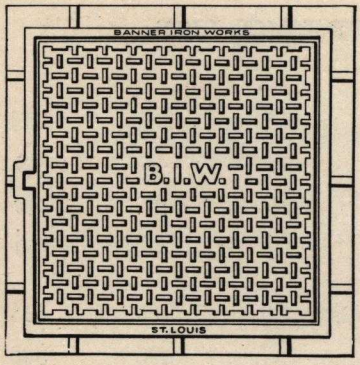


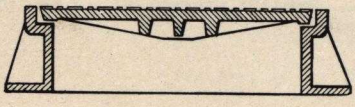


No. 4600

Size of Cover	24″x24″
Size of Frame, outside	29″x29″
Height of Frame	8″
Weight of Cover	176 lbs.
Weight of Frame	242 lbs.
Price, complete	$30.00

SQUARE CAST IRON MANHOLE FRAME AND SOLID COVER





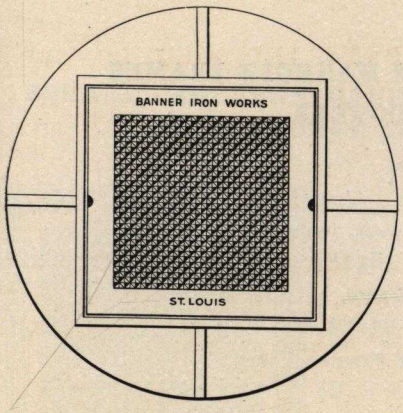
No. 4750

Size of Cover	28½″x28½″
Size of Frame, outside	36″x36″
Height of Frame	9″
Weight of Cover	255 lbs.
Weight of Frame	470 lbs.
Price, complete	$42.50

SQUARE CAST IRON METER FRAMES AND SOLID COVERS

No. 4610

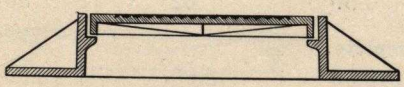
Size of Cover	24"x24"	30"x30"
Size of Frame, outside	29"x29"	36"x36"
Height of Frame	$2\frac{1}{2}$"	3"
Weight of Cover	90 lb.	146 lb.
Weight of Frame	87 lb.	116 lb.
Price, complete	$17.00	$24.00



ROUND CAST IRON FRAME WITH SQUARE SOLID COVER

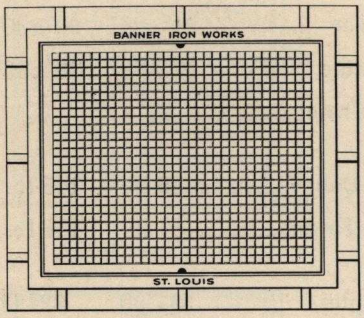
No. 4840

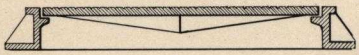
Size of Cover	22"x22"
Diameter of Frame, outside	38"
Height of Frame	6"
Weight of Cover	120 lbs.
Weight of Frame	213 lbs.
Price, complete	$21.50



RECTANGULAR CAST IRON MANHOLE FRAMES AND SOLID COVERS

No. 4770

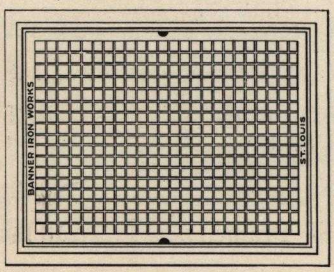


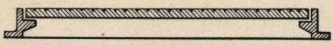


Size of Cover, inches	18x18	24x24	30x24	30x30
Size of Frame, outside, inches	24x24	30x30	36x30	36x36
Height of Frame, inches	4	4	4	4
Weight of Cover, lbs.	70	146	190	230
Weight of Frame, lbs.	94	124	135	155
Price, complete	$13.00	20.00	25.00	27.00

RECTANGULAR CAST IRON MANHOLE FRAMES AND SOLID COVERS

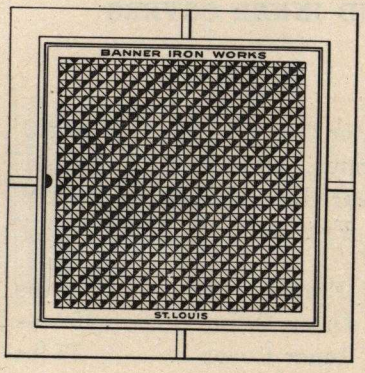
No. 4771

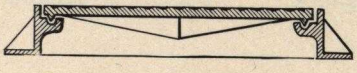




Size of Cover, inches	18x18	24x18	30x24
Size of Frame, outside, inches	24x24	30x24	36x30
Height of Frame, inches	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$
Weight of Cover, lbs.	70	98	167
Weight of Frame, lbs.	50	62	80
Price, complete	$10.50	12.00	18.50

SQUARE CAST IRON MANHOLE FRAME AND SOLID COVER WITH GROOVE IN FRAME FOR PACKING

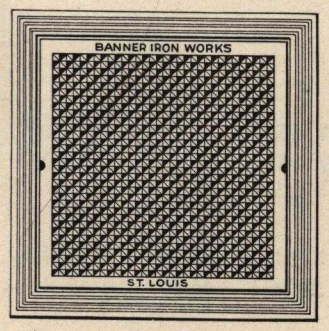


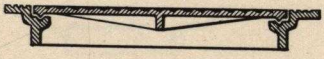


No. 4780

Size of Cover	24"x24"
Size of Frame, outside	30"x30"
Height of Frame	4"
Weight of Cover	120 lbs.
Weight of Frame	120 lbs.
Price, complete	$17.00

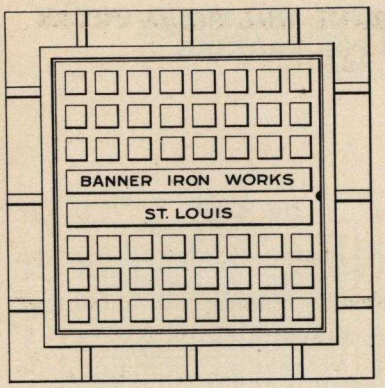
SQUARE CAST IRON MANHOLE FRAME AND SOLID COVER WITH GROOVE IN FRAME FOR PACKING

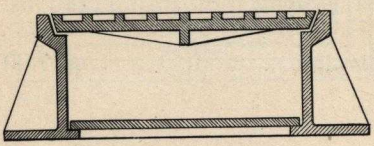




No. 4781

Size of Cover	20"x20"
Size of Frame, outside	24"x24"
Height of Frame	3"
Weight of Cover	50 lbs.
Weight of Frame	66 lbs.
Price, complete	$9.00





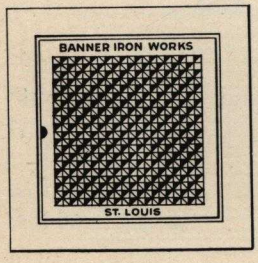
SQUARE CAST IRON MANHOLE FRAME WITH SOLID OUTER AND INNER COVERS

No. 4801

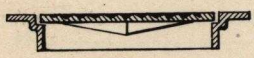
Size of Outer Cover	23″x23″
Size of Frame, outside	31″x31″
Size of Clear Opening	18″x18″
Height of Frame	10½″
Weight of Frame	440 lbs.
Weight of Outer Cover	152 lbs.
Weight of Inner Cover	75 lbs.
Price, complete	$42.00

SQUARE CAST IRON CLEANOUT FRAMES AND SOLID COVERS

No. 4620

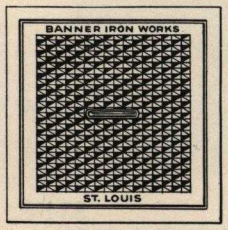


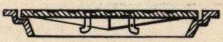
Size of Cover	13″x13″	16″x16″	19″x19″
Size of Frame, outside	17″x17″	20″x20″	23″x23″
Height of Frame	2½″	2½″	2½″
Weight of Cover	23 lb.	31 lb.	45 lb.
Weight of Frame	28 lb.	45 lb.	45 lb.
Price, complete	$5.00	$6.50	$8.00



SQUARE CAST IRON HANDHOLE FRAME AND SOLID COVER WITH FLUSH LIFT HANDLE

No. 4880

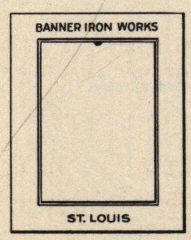


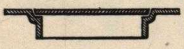


Size of Cover	13″x13″
Size of Frame, outside	15″x15″
Depth of Frame	$1\frac{3}{4}$″
Weight of Cover	15 lbs.
Weight of Frame	15 lbs.
Price, complete	$3.50

RECTANGULAR CAST IRON HANDHOLE FRAME AND SOLID COVER

No. 4881





Size of Cover	7″x9″
Size of Frame, outside	$10\frac{1}{2}$″x$12\frac{1}{2}$″
Depth of Frame	$1\frac{3}{4}$″
Weight of Cover	4 lbs.
Weight of Frame	10 lbs.
Price, complete	$1.75

CITY OF ST. LOUIS STANDARD CAST IRON SOLID INLET COVER FOR STONE OR CONCRETE CAPS

No. 4900

Diameter of Cover.....24″
Thickness of Cover.....$\frac{3}{4}$″

Weight, each.....85 lbs.

Price, each.....$5.50

CITY OF EAST ST. LOUIS, ILL., STANDARD CAST IRON SOLID INLET COVER—FOR STONE OR CONCRETE CAPS

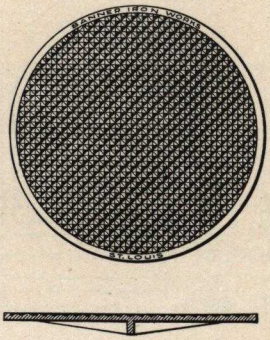
No. 4901

Diameter of Cover.....20$\frac{3}{4}$″
Thickness of Cover.....$\frac{3}{4}$″

Weight, each.....65 lbs.

Price, each.....$3.75

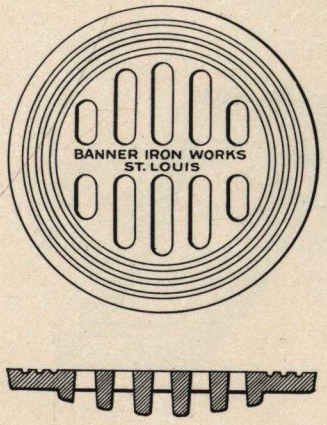
ROUND CAST IRON SOLID INLET COVER FOR STONE OR CONCRETE CAPS



No. 4902

Diameter of Cover	18″
Thickness of Cover	½″
Weight, each	38 lbs.
Price, each	$2.60

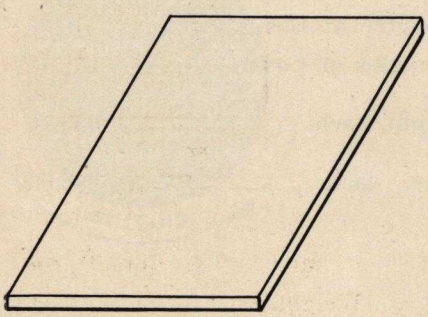
ROUND CAST IRON GRATED INLET COVER FOR STONE OR CONCRETE CAPS



No. 4903

Diameter of Cover	21¾″
Thickness of Cover	1¼″
Weight, each	136 lbs.
Price, each	$7.75

CITY OF ST. LOUIS STANDARD CAST IRON TRAP PLATE FOR SEWER INLETS



No. 4910

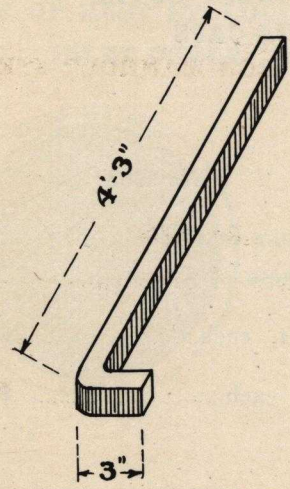
Size of Plate.....21″x33″

Thickness of Plate.....½″

Weight, each.....90 lbs.

Price, each.....$7.25

CITY OF ST. LOUIS STANDARD WROT IRON INLET BAR FOR SEWER INLETS



No. 4930

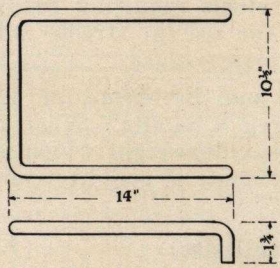
Made of 1″ Square Iron

Weight, each.....15½″ lbs.

Price, each.....$1.20

CITY OF ST. LOUIS STANDARD WROT IRON MANHOLE STEP

No. 4920



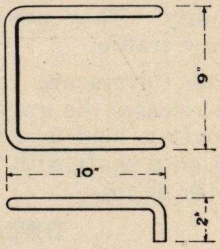
Made of ¾" Round Iron

Weight, each.....5 lbs.

Price, each.....$0.40

CITY OF EAST ST. LOUIS, ILL., STANDARD WROT IRON MANHOLE STEP

No. 4921

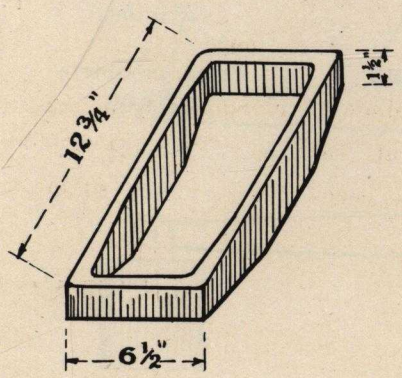


Made of ¾" Round Iron

Weight, each.....4¼ lbs.

Price, each.....$0.35

CITY OF ST. LOUIS STANDARD CAST IRON MANHOLE STEP



No. 4922

Metal ⅝" to ¾" Thick

Weight, each.....11 lbs.

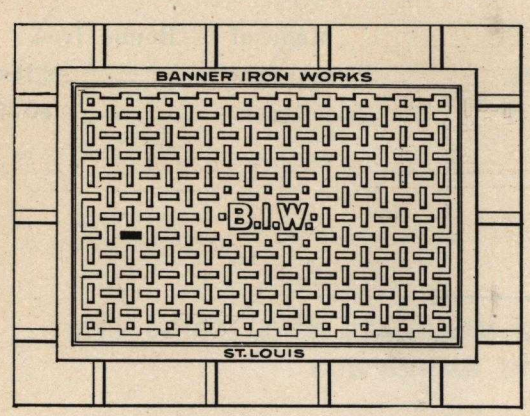
Price, each.....$0.80

BALANCED CAST IRON MANHOLE COVER AND FRAME MADE IN TWO SIZES—RECTANGULAR—SOLID COVERS

No. 4975 as shown below and No. 4985 as shown on opposite page No. 35, are used as the Standard Cover for Gas Main and Wire Conduit Pits, and Manholes for Water and Sewer Systems requiring ready accessability. They are particularly adapted for use in streets subject to heavy traffic.

The Covers are readily opened by one man by means of a key, which releases the gravity catch and then forms a handle. When open, the Cover is held in a vertical position by a counterweight which is adjusted on a shaft with lever arms. Length of shaft is made to conform to width of pit.

DETAILS OF No. 4975 (small size)



Size of Cover
21½"x31½"

Size of Frame, outside
29½"x39½"

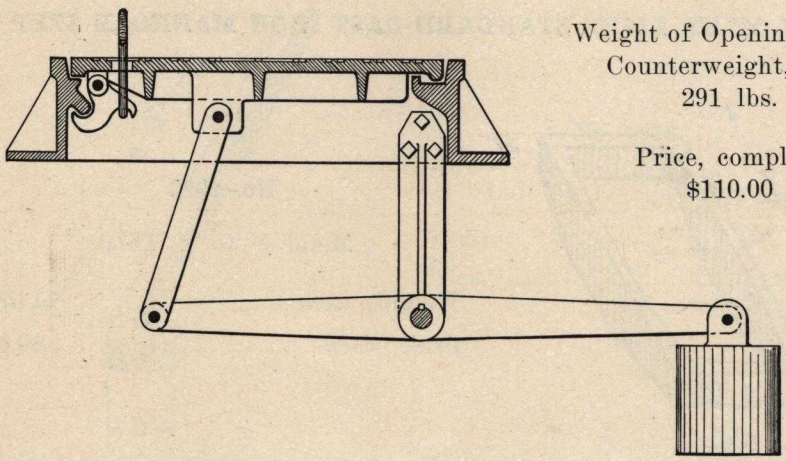
Height of Frame
8"

Weight of Frame
367 lbs.

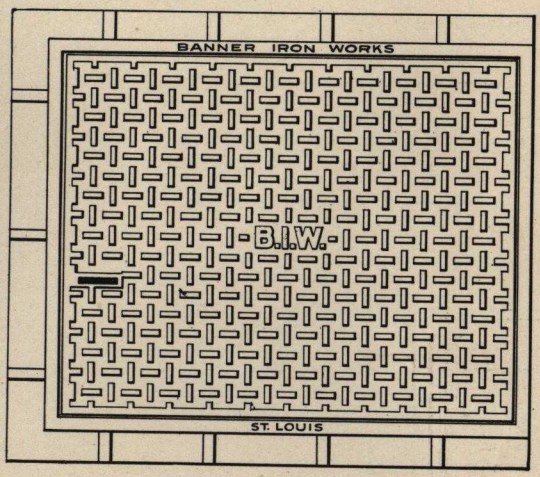
Weight of Cover
200 lbs.

Weight of Opening Device
Counterweight, Etc.
291 lbs.

Price, complete
$110.00



BALANCED CAST IRON MANHOLE COVER AND FRAME
DETAILS OF No. 4985 (large size)



Size of Cover
$27\frac{3}{4}''$x$34\frac{1}{4}''$

Size of Frame, outside
$35\frac{1}{2}''$x$39\frac{1}{2}''$

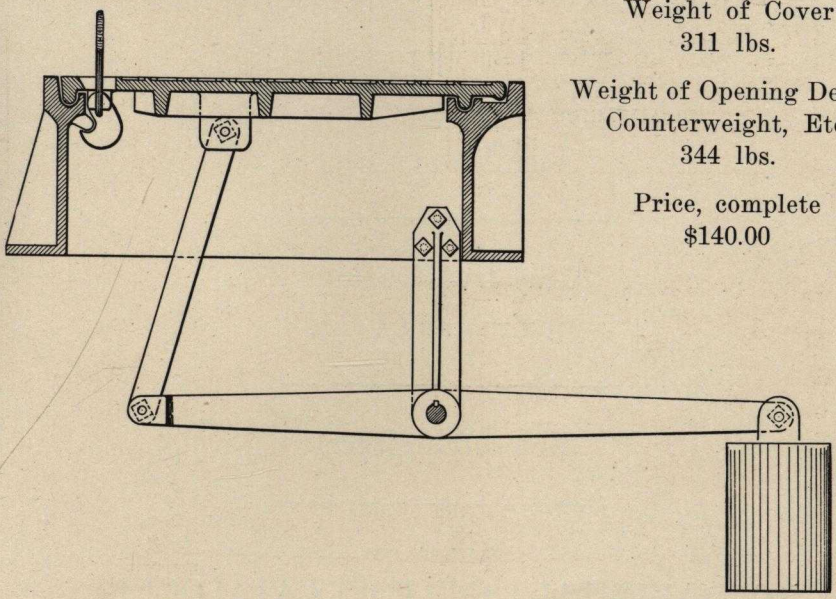
Height of Frame
14″

Weight of Frame
678 lbs.

Weight of Cover
311 lbs.

Weight of Opening Device
Counterweight, Etc.
344 lbs.

Price, complete
$140.00



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Self-Sealing Mouthpieces

Gas Main Fittings
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